# Blast of SEQ ID NO:1 versus human genomic sequence

MEGABLAST 1.2.3-Paracel [2001-11-20]
**Reference**:
Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.
Database: Homo_sapiens.latestgp.masked.fa
            33,840 sequences; 200,810,911,373 total letters


Query= 1
          (3753 letters)

|                                                    | Score  | E     |
|----------------------------------------------------|--------|-------|
| Sequences producing significant alignments:        | (bits) | Value |
| AL033377.2.1.135090                                | 1245   | 0.0   |
| AL360007.11.1.90011                                | 198    | 2e-47 |


>AL033377.2.1.135090
          Length = 135090


 Score = 1245 bits (628), Expect = 0.0
 Identities = 628/628 (100%)
 Strand = Plus / Plus


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Query: 444    agttgccgtgtccttaaggaatcaaaaggtcattttaccccagacatcagatgcttacca 503
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36010 agttgccgtgtccttaaggaatcaaaaggtcattttaccccagacatcagatgcttacca
36069


Query: 504    ggtatctgttgcaaaaagcatctctattccagagctcagtgctttcacactctgctttga 563
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36070 ggtatctgttgcaaaaagcatctctattccagagctcagtgctttcacactctgctttga
36129


Query: 564    agcaaccaaagttggccatgaagacagtgattggacagctttctcctactcaaatgcatc 623
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36130 agcaaccaaagttggccatgaagacagtgattggacagctttctcctactcaaatgcatc
36189


Query: 624    cttcacacaattgctcagttttggaaaggccaagagtggctactttctatccatttctga 683
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36190 cttcacacaattgctcagttttggaaaggccaagagtggctactttctatccatttctga
36249


Query: 684    ttcaaaatgtttgttgaataatgcattacctgtcaaagaaaaagaagacatttttgcaga 743
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36250 ttcaaaatgtttgttgaataatgcattacctgtcaaagaaaaagaagacatttttgcaga
36309
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Query: 744    aagctttgaacagctctgccttgtttggaataattctttgggctctattggtgtaaattt 803
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36310  aagctttgaacagctctgccttgtttggaataattctttgggctctattggtgtaaattt
36369


Query: 804    caaaagaaactatgaaacagttccatgtgattctaccattagtaaagttattcctgggaa 863
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36370  caaaagaaactatgaaacagttccatgtgattctaccattagtaaagttattcctgggaa
36429


Query: 864    tgggaaattgttgttgggctccaatcaaaatgaaattgtctctctaaaaggggacattta 923
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36430  tgggaaattgttgttgggctccaatcaaaatgaaattgtctctctaaaaggggacattta
36489


Query: 924    taactttcgactttggaatttttaccatgaatgccaaaatcctctccaacctcagctgtaa 983
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36490  taactttcgactttggaatttttaccatgaatgccaaaatcctctccaacctcagctgtaa
36549


Query: 984    tgtgaaagggaatgtagtcgactggcaaaatgacttctggaatatcccaaacctagctct
1043
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36550  tgtgaaagggaatgtagtcgactggcaaaatgacttctggaatatcccaaacctagctct
36609


Query: 1044   gaaagctgaaagcaacctaagctgtggt 1071
              ||||||||||||||||||||||||||||
Sbjct: 36610  gaaagctgaaagcaacctaagctgtggt 36637



 Score =  690 bits (348), Expect = 0.0
 Identities = 348/348 (100%)
 Strand = Plus / Plus


Query: 98     cagcagtgtggggatgtgccaactgccgagtggttttgtccaacccttctgggaccttta 157
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 33405  cagcagtgtggggatgtgccaactgccgagtggttttgtccaacccttctgggaccttta
33464


Query: 158    cttctccatgctaccctaacgactacccaaacagccaggcttgcatgtggacgctccgag 217
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 33465  cttctccatgctaccctaacgactacccaaacagccaggcttgcatgtggacgctccgag
33524


Query: 218    ccccaccggttatatcattcagataacatttaacgactttgacattgaagaagctccca 277
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Sbjct: 33525 cccccaccggttatatcattcagataacatttaacgactttgacattgaagaagctccca
33584


Query: 278   attgcatttatgactcattatcccttgataatggagagagccagactaaattttgtggag 337
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 33585 attgcatttatgactcattatcccttgataatggagagagccagactaaattttgtggag
33644


Query: 338   caactgccaaaggcctatcatttaactcaagtgcgaatgagatgcatgtgtccttttcaa 397
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 33645 caactgccaaaggcctatcatttaactcaagtgcgaatgagatgcatgtgtccttttcaa
33704


Query: 398   gtgactttagcatccagaagaaaggtttcaatgccagctacatcagag 445
             ||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 33705 gtgactttagcatccagaagaaaggtttcaatgccagctacatcagag 33752



   Score =  565 bits (285), Expect = e-158
   Identities = 285/285 (100%)
   Strand = Plus / Plus


Query: 3036  ctgttggattcaagatccagtcatattttatgtgacctgtgctgggtattttggagtcat
3095
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 85663 ctgttggattcaagatccagtcatattttatgtgacctgtgctgggtattttggagtcat
85722


Query: 3096  gttttttctgaacattgccatgttcattgtggtaatggtgcagatctgtgggaggaatgg
3155
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 85723 gttttttctgaacattgccatgttcattgtggtaatggtgcagatctgtgggaggaatgg
85782


Query: 3156  caagagaagcaaccggaccctgagagaagaagtgttaaggaacctgcgcagtgtggttag
3215
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 85783 caagagaagcaaccggaccctgagagaagaagtgttaaggaacctgcgcagtgtggttag
85842


Query: 3216  cttgacctttctgttgggcatgacatggggttttgcattctttgcctggggaccccttaaa
3275
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 85843 cttgacctttctgttgggcatgacatggggttttgcattctttgcctggggaccccttaaa
85902


Query: 3276  tatccccttcatgtacctcttctccatcttcaattcattacaagg 3320
             |||||||||||||||||||||||||||.|||||||||||||||||
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Sbjct: 85903 tatccccttcatgtacctcttctccatcttcaattcattacaagg 85947

Score =  537 bits (271), Expect = e-149
Identities = 271/271 (100%)
Strand = Plus / Plus

Query: 2670  gaaattgcgaagggattatccctccaaaatcttgatgaacctgagcacagccctgctgtt
2729
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 81638 gaaattgcgaagggattatccctccaaaatcttgatgaacctgagcacagccctgctgtt
81697

Query: 2730  cctgaatctcctcttcctcctagatggctggatcacctccttcaatgtggatggactttg
2789
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 81698 cctgaatctcctcttcctcctagatggctggatcacctccttcaatgtggatggactttg
81757

Query: 2790  cattgctgttgcagtcctgttgcatttcttccttctggcaacctttacctggatggggct
2849
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 81758 cattgctgttgcagtcctgttgcatttcttccttctggcaacctttacctggatggggct
81817

Query: 2850  agaagcaattcacatgtacattgctctagttaaagtatttaacacttacattcgccgata
2909
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 81818 agaagcaattcacatgtacattgctctagttaaagtatttaacacttacattcgccgata
81877

Query: 2910  cattctaaaattctgcatcattggctggggt 2940
              |||||||||||||||||||||||||||||||
Sbjct: 81878 cattctaaaattctgcatcattggctggggt 81908

Score =  420 bits (212), Expect = e-114
Identities = 215/216 (99%)
Strand = Plus / Plus

Query: 1740  tttaaaagaagcaaatgaagttgctaaccagattttaaatttaactgctgatgggcagaa
1799
              ||||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 68457 tttagaagaagcaaatgaagttgctaaccagattttaaatttaactgctgatgggcagaa
68516

Query: 1800  cttaacctcagccaatattaccaacattgtggaacaggtcaaaagaattgtgaataaaga
1859

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                          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 68517  cttaacctcagccaatattaccaacattgtggaacaggtcaaaagaattgtgaataaaga
68576


Query:  1860  agaaaacattgatataacacttggctcaactctaatgaatatattttctaatatcttaag
1919
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 68577  agaaaacattgatataacacttggctcaactctaatgaatatattttctaatatcttaag
68636


Query:  1920  cagttcagacagtgacttgcttgagtcatcttctga 1955
              ||||||||||||||||||||||||||||||||||||
Sbjct: 68637  cagttcagacagtgacttgcttgagtcatcttctga 68672



  Score =  361 bits (182), Expect = 2e-96
  Identities = 182/182 (100%)
  Strand = Plus / Plus


Query: 3572   cagacagtgcttccatggacaagtccttgtcaaaactggcccatgctgatggagatcaaa
3631
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 109176 cagacagtgcttccatggacaagtccttgtcaaaactggcccatgctgatggagatcaaa
109235


Query: 3632   catcaatcatccctgtccatcaggtcattgataaggtcaagggttattgcaatgctcatt
3691
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 109236 catcaatcatccctgtccatcaggtcattgataaggtcaagggttattgcaatgctcatt
109295


Query: 3692   cagacaacttctataaaaatattatcatgtcagacaccttcagccacagcacaaagtttt
3751
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 109296 cagacaacttctataaaaatattatcatgtcagacaccttcagccacagcacaaagtttt
109355


Query: 3752   aa 3753
              ||
Sbjct: 109356 aa 109357



  Score =  341 bits (172), Expect = 2e-90
  Identities = 172/172 (100%)
  Strand = Plus / Plus


Query: 1956   agctttaaaaacaattgatgaattggccttcaagatagacctaaatagcacatcacatgt
2015
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                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  69644  agctttaaaaacaattgatgaattggccttcaagatagacctaaatagcacatcacatgt
69703


Query:  2016   gaatattacaactcggaacttggctctcagcgtatcatccctgttaccagggacaaatgc
2075
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  69704  gaatattacaactcggaacttggctctcagcgtatcatccctgttaccagggacaaatgc
69763


Query:  2076   aatttcaaatttttagcattggtcttccaagcaataatgaatcgtatttccag 2127
                    |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  69764  aatttcaaatttttagcattggtcttccaagcaataatgaatcgtatttccag 69815



Score =  309 bits (156), Expect = 7e-81
Identities = 156/156 (100%)
Strand = Plus / Plus


Query:  3419   cagattggagtaagacagctaccaatatcatcaagaaaagttctgataatctaggaaaat
3478
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  104051 cagattggagtaagacagctaccaatatcatcaagaaaagttctgataatctaggaaaat
104110


Query:  3479   ctttgtcttcaagctccattggttccaactcaacctatcttacatccaaatctaaatcca
3538
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  104111 ctttgtcttcaagctccattggttccaactcaacctatcttacatccaaatctaaatcca
104170


Query:  3539   gctctaccacctatttcaaaaggaatagccacacag 3574
                    ||||||||||||||||||||||||||||||||||||
Sbjct:  104171 gctctaccacctatttcaaaaggaatagccacacag 104206



Score =  287 bits (145), Expect = 3e-74
Identities = 145/145 (100%)
Strand = Plus / Plus


Query:  2125   cagatggattttgagagtggacaagtggatccactggcatctgtaattttgcctccaaac
2184
                    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  71527  cagatggattttgagagtggacaagtggatccactggcatctgtaattttgcctccaaac
71586


Query:  2185   ttacttgagaatttaagtccagaagattctgtattagttagaagagcacagtttactttc
2244
```

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                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 71587   ttacttgagaatttaagtccagaagattctgtattagttagaagagcacagtttactttc
71646


Query: 2245    ttcaacaaaactggacttttccagg 2269
               |||||||||||||||||||||||||
Sbjct: 71647   ttcaacaaaactggacttttccagg 71671



Score =  283 bits (143), Expect = 4e-73
Identities = 146/147 (99%)
Strand = Plus / Plus


Query: 1423    aggttggtgctttgggcccttctagtttacaatgctaccaacaatactaatttagaagga
1482
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Sbjct: 63453   aggttggtgctttgggcccttctagtttacaatgctaccaacaatactaatttggaagga
63512


Query: 1483.   aaaatcattcagcagaagctcctaaaaaataatgagtccttggatgaaggcttgaggcta
1542
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 63513   aaaatcattcagcagaagctcctaaaaaataatgagtccttggatgaaggcttgaggcta
63572


Query: 1543    catacagtgaatgtgagacaactgggt 1569
               |||||||||||||||||||||||||||
Sbjct: 63573   catacagtgaatgtgagacaactgggt 63599



Score =  258 bits (130), Expect = 2e-65
Identities = 130/130 (100%)
Strand = Plus / Plus


Query: 2541    ggaccttccaagaagtgcctcacagttagatgcaagaaacactaaagtcctcactttcat
2600
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 80810   ggaccttccaagaagtgcctcacagttagatgcaagaaacactaaagtcctcactttcat
80869


Query: 2601    cagctatattgggtgtggaatatctgctattttttcagcagcaactctcctgacatatgt
2660
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 80870   cagctatattgggtgtggaatatctgctattttttcagcagcaactctcctgacatatgt
80929


Query: 2661    tgcttttgag 2670
               ||||||||||
```

Sbjct: 80930 tgcttttgag 80939


Score = 244 bits (123), Expect = 3e-61
Identities = 123/123 (100%)
Strand = Plus / Plus


Query: 2267  aggatgtaggaccccaaagaaaaactttagtgagttatgtgatggcgtgcagtattggaa 2326

             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 73990 aggatgtaggaccccaaagaaaaactttagtgagttatgtgatggcgtgcagtattggaa 74049


Query: 2327  acattactatccagaatctgaaggatcctgttcaaataaaaatcaaacatacaagaactc 2386

             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 74050 acattactatccagaatctgaaggatcctgttcaaataaaaatcaaacatacaagaactc 74109


Query: 2387  agg 2389
             |||
Sbjct: 74110 agg 74112


Score = 224 bits (113), Expect = 3e-55
Identities = 113/113 (100%)
Strand = Plus / Plus


Query: 1567  ggtcattgtcttgccatggaggaacccaaaggctactactggccatctatccaaccttct 1626

             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 66326 ggtcattgtcttgccatggaggaacccaaaggctactactggccatctatccaaccttct 66385


Query: 1627  gaatacgttcttccttgtccagacaagcctggcttttctgcttctcggatatg 1679
             |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 66386 gaatacgttcttccttgtccagacaagcctggcttttctgcttctcggatatg 66438


Score = 214 bits (108), Expect = 3e-52
Identities = 112/113 (99%), Gaps = 1/113 (0%)
Strand = Plus / Plus


Query: 2431  aaca-aaagttttggaggatggaacacgtcaggatgtgttgcacacagagattcagatgc 2489

             ||||  |||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 77142 aacagaaagttttggaggatggaacacgtcaggatgtgttgcacacagagattcagatgc 77201

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Query: 2490  aagtgagacagtctgcctgtgtaaccacttcacacactttggagttctgatgg 2542
             |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 77202 aagtgagacagtctgcctgtgtaaccacttcacacactttggagttctgatgg 77254


Score =  198 bits (100), Expect = 2e-47
Identities = 103/104 (99%)
Strand = Plus / Plus


Query: 3318   aggcttatttatattcatcttccactgtgctatgaaggagaatgttcagaaacagtggcg
3377
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 103274 aggcttatttatattcatcttccactgtgctatgaaggagaatgttcagaaacagtggcg
103333


Query: 3378   gcggcatctctgctgtggtagatttcggttagcagataactcag 3421
              || |||||||||||||||||||||||||||||||||||||||
Sbjct: 103334 gcagcatctctgctgtggtagatttcggttagcagataactcag 103377


Score =  172 bits (87), Expect = 1e-39
Identities = 87/87 (100%)
Strand = Plus / Plus


Query: 1222   gatggaattatctatagaatatccgtagtgattcagaacatccttcgtcaccctgaggta
1281
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 56099  gatggaattatctatagaatatccgtagtgattcagaacatccttcgtcaccctgaggta
56158


Query: 1282   aaagtacagagcaaggtggcagaatgg 1308
              |||||||||||||||||||||||||||
Sbjct: 56159  aaagtacagagcaaggtggcagaatgg 56185


Score =  170 bits (86), Expect = 4e-39
Identities = 86/86 (100%)
Strand = Plus / Plus


Query: 1137   agctactgtaaactctcctagtactacaccacccactgtcaccactaacatgcctgttac
1196
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 49600  agctactgtaaactctcctagtactacaccacccactgtcaccactaacatgcctgttac
49659


Query: 1197   taacagaatcgataaacaaaggaatg 1222
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                   |||||||||||||||||||||||||
Sbjct: 49660 taacagaatcgataaacaaaggaatg 49685


  Score =  139 bits (70), Expect = 1e-29
  Identities = 70/70 (100%)
  Strand = Plus / Plus


Query: 1069   ggttcctacctgatcccgctcccagcagcagaactggccagctgtgcagacctggggacc
1128
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 47792 ggttcctacctgatcccgctcccagcagcagaactggccagctgtgcagacctggggacc
47851


Query: 1129  ctctgtcaag 1138
             ||||||||||
Sbjct: 47852 ctctgtcaag 47861


  Score =  133 bits (67), Expect = 9e-28
  Identities = 67/67 (100%)
  Strand = Plus / Plus


Query: 1360   agttttcacctgagtgctggagaggacaagattaaagtcaagagaagccttgaggatgag
1419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 59736 agttttcacctgagtgctggagaggacaagattaaagtcaagagaagccttgaggatgag
59795


Query: 1420  ccaaggt 1426
             |||||||
Sbjct: 59796 ccaaggt 59802


  Score =  131 bits (66), Expect = 4e-27
  Identities = 66/66 (100%)
  Strand = Plus / Plus


Query: 1679   gttttacaatgctaccaacccattggtaacctactggggacctgttgatatctccaact
1738
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 67835 gttttacaatgctaccaacccattggtaacctactggggacctgttgatatctccaact
67894


Query: 1739  gtttaa 1744
             ||||||
Sbjct: 67895 gtttaa 67900
```

Score = 107 bits (54), Expect = 5e-20
Identities = 54/54 (100%)
Strand = Plus / Plus


```
Query: 1308   gctcaattcaaccttccaaaattggaactacacggtttatgtcgttaatatcag 1361
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 58789 gctcaattcaaccttccaaaattggaactacacggtttatgtcgttaatatcag 58842
```


Score = 103 bits (52), Expect = 8e-19
Identities = 52/52 (100%)
Strand = Plus / Plus


```
Query: 2938   ggtttgcctgccttagtggtgtcagttgttctagcgagcagaaacaacaatg 2989
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 83114 ggtttgcctgccttagtggtgtcagttgttctagcgagcagaaacaacaatg 83165
```


Score = 95.6 bits (48), Expect = 2e-16
Identities = 55/57 (96%), Gaps = 1/57 (1%)
Strand = Plus / Plus


```
Query: 2387   aggaagtgcatcatcccatctgtgccttctgggatctgaacaaaaacaa-aagtttt 2442
              |||||||||||||||||||||||||||||||||||||||||||||||||  |||||||
Sbjct: 75714 aggaagtgcatcatcccatctgtgccttctgggatctgaacaaaaacagtaagtttt 75770
```


>AL360007.11.1.90011
          Length = 90011

Score = 198 bits (100), Expect = 2e-47
Identities = 100/100 (100%)
Strand = Plus / Plus


```
Query: 1      atgtttcgctcagatcgaatgtggagctgccattggaaatggaagcccagtcctctcctg 60.
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 65298 atgtttcgctcagatcgaatgtggagctgccattggaaatggaagcccagtcctctcctg 65357
```


```
Query: 61     ttcttatttgctttatatatcatgtgtgttcctcactcag 100
              ||||||||||||||||||||||||||||||||||||||||
Sbjct: 65358 ttcttatttgctttatatatcatgtgtgttcctcactcag 65397
```